

	1	10	20	30	40	50	60	70	80
Consensus	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
Identity	<div><div></div></div>								
1. 17v2 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA ERLCHLQEILAQMYGNQDYPIE								
2. F US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
3. H129 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
4. KOS US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
5. McKr US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA ERL F H LQ EILAQMYGNQDYPIE								
6. HF10 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTP T EDACLDSPPPETPKPSHTTTPPS SEA ERLCHLQEILAQMYGNQDYPIE								
7. CR38 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
8. E03 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA ERLCHLQEILAQMYGNQDYPIE								
9. E06 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA KRLCHLQEILAQMYGNQDYPIE								
10. E07 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
11. E08 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
12. E10 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA KRLCHLQEILAQMYGNQDYPIE								
13. E11 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA KRLCHLQEILAQMYGNQDYPIE								
14. E12 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
15. E13 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
16. E14 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
17. E15 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
18. E19 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
19. E22 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA KRLCHLQEILAQMYGNQDYPIE								
20. E23 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
21. E25 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPPETPKPSHTTTPPS SEA KRLCHLQEILAQMYGNQDYPIE								
22. E35 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
23. R11 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
24. R62 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
25. S23 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								
26. S25 US3	MACRKFCRVYGGQGRRKEEAVPPETKPSRVFPHGPFYTPAEDACLDSPPP E PKPSHTTTPPGDAERLCHLQEILAQMYGNQDYPIE								

	90	100	110	120	130	140	150	160	170
Consensus	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
Identity	<div><div></div></div>								
1. 17v2 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
2. F US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDA P GPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
3. H129 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDA P GPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
4. KOS US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMD RQ AARAI								
5. McKr US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
6. HF10 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
7. CR38 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
8. E03 US3	DDPSADAADDVDEDAPDDVAYPEEYAE G LFLLPGDATGPL L GANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
9. E06 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
10. E07 US3	DDPSADAADDVDEDAPDDVAYPEEYAD DEL FLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
11. E08 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
12. E10 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
13. E11 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
14. E12 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
15. E13 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
16. E14 US3	DDPSADAADDVDEDAPDDVAYPEEYAD DEL FLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
17. E15 US3	DDPSADAADDVDEDAPDDVAYPEEYAD DEL FLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
18. E19 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
19. E22 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
20. E23 US3	DDPSADAADDVDEDAPDDVAYPEEYAD DEL FLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
21. E25 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPP C GASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
22. E35 US3	DDPSADAADDVDEDAPDDVAYPEEYAD DEL FLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
23. R11 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
24. R62 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
25. S23 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								
26. S25 US3	DDPSADAADDVDEDAPDDVAYPEEYAEELFLPGDATGPLIGANDHIPPPRGASPPGIRRRSRDEIGATGFTAEEELDAMDREAARAI								

	180	190	200	210	220	230	240	250
Consensus	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
Identity								
1. 17v2 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
2. F US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
3. H129 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
4. KOS US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
5. McKr US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
6. HF10 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
7. CR38 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
8. E03 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
9. E06 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
10. E07 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
11. E08 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
12. E10 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
13. E11 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
14. E12 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
15. E13 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
16. E14 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
17. E15 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
18. E19 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
19. E22 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
20. E23 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
21. E25 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
22. E35 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
23. R11 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
24. R62 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
25. S23 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							
26. S25 US3	SRGGKPPSTMAKLV T GMGFT I HGAL T PG S EG C VF D SSHPDYPQ R VI V KAGWY T ST S HEAR L LR R LDHPA I L P LLDLH V SV G VT C L V							